SHARP®

DVD Video Player

MODEL
DV-SV97S(B)

OPERATION MANUAL

Please read this Operation Manual carefully before using your DVD Video Player.

The region number for this DVD Video Player is 2.

DVD VIDEO™ COMPACT disc DIGITAL AUDIO COMPACT disc DIGITAL VIDEO

DOLBY DIGITAL dts DIGITAL OUT DivX®

MP3 READABLE JPEG READABLE HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

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This apparatus complies with the requirements of Council Directives 89/336/EEC and 73/23/EEC as amended by Council Directive 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Αυτή η συσκευή συμμορφώνεται με τις απαιτήσεις των οδηγιών του Συμβουλίου 89/336/ΕΟΚ και 73/23/ΕΟΚ όπως τροποποιήθηκαν από την οδηγία του Συμβουλίου 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

Bu cihaz Konsey Direktifi 93/68/EEC tarafindan düzeltilen 89/336/EEC ve 73/23/EEC Konsey Direktiflerinin gerekliliklerine uygundur.

Tento přístroj je v souladu s požadavky směrnic rady 89/336/EEC a 73/23/EEC, tak jak byly upraveny směrnicí rady 93/68/EEC.

See seade on vastavuses Nõukogu Direktiivis nr 89/336/EEC ja 73/23/EEC esitatud nõuetega, vastavalt Nõukogu Direktiivis nr 93/68/EEC esitatud parandustele

Ez a készülék megfelel a Tanács által kiadott, 89/336/EGK és 73/23/EGK Irányelveknek és az utóbbit módosító 93/68/EGK Irányelvnek

Ši ierice atbilst tehniskam prasibam pec 89/336/EEC un 73/23/EEC direktivam papildinats ar direktivu 93/68/EEC.

Šis prietaisas atitinka ES Tarybos direktyvu 89/336/EEC ir 73/23/EEC patikslintos direktyvos 93/68/EEC reikalavimus.

To urządzenie spełnia wymagania dyrektyw 89/336/EEC i 73/23/EEC wraz z poprawkami dyrektywy 93/68/EEC.

Tento prístroj je v súlade s požiadavkami smerníc rady
89/336/EEC a 73/23/EEC tak ako boli upravené smernicou rady 93/68/EEC.

Ta aparat je v skladu z zahtevami Direktiv Sveta 89/336/EEC in 73/23/EEC kot je navedeno v dopolnilu k Direktivi Sveta 93/68/EEC.

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SAFETY INFORMATION

Note:
This player can be used only where the power supply is AC 220-240 V, 50 Hz. It cannot be used elsewhere.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AS THE LASER BEAM USED IN THIS PLAYER IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

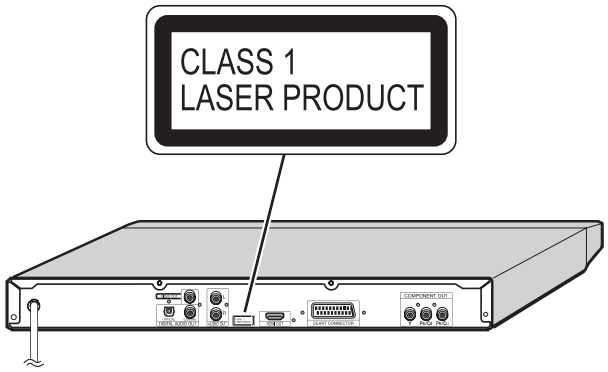
Laser Diode Properties
Material: GaAs
Wavelength: DVD: 650 nm
CD: 790 nm
Emission duration: Continuous
Laser output: Max. 0.4 mW

Power Cord Protection

To avoid any malfunctions of the player, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.

- This player is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.



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SAFETY INFORMATION

Location and Handling
- Do not cover or place the player in enclosed spaces to prevent excessive temperature build-up.
- Do not place the player in direct sunlight, or near heat sources.
- Keep the player away from strong magnetic objects.
- Do not place any object containing water or other liquids on the player. In the event that liquid should enter the cabinet, unplug the player immediately and contact the retailer or service centre approved by SHARP immediately.
- Do not remove the player cabinet. Touching parts inside the cabinet could result in electric shock and/ or damage to the player. For service and adjustment inside the cabinet, call a qualified dealer or service centre approved by SHARP.

Non-use Periods
When the player is not being used, switch the player to the Standby mode.
When left unused for a long period of time, the player should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside
Do not put any foreign object on the disc tray.

Stacking
Place the player in a horizontal position, and do not place anything heavy on it.

Condensation
Moisture may form on the pickup lens in the following conditions:
- immediately after a heater has been turned on.
- in a steamy or very humid room.
- when the player is suddenly moved from a cold environment to a warm one.

If moisture forms inside this player, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

Cleaning
Unplug your player before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluids or aerosols which could enter the player and cause damage, fire, or electrical shock.
These substances may also deteriorate the finish of your player.

If There Is Noise Interference on the TV While a Broadcast Is Being Received
Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the player is left on. This is not a malfunction of the player or the TV. To watch a TV broadcast, turn off the player.

Service
Do not attempt to service this player yourself. Please refer any service to the nearest service centre approved by SHARP.

Copyright
Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant laws in your country.

Copy Protection
This player supports Macrovision copy protection. On DVDs that include a copy protection code, if the contents of the DVD are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

U.S.Patent Nos. 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorised by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision. Reverse engineering or disassembly is prohibited.

- When attempting to record copy protected material on a VCR or other recording device, the copy protection will activate and the protected material will not be recorded correctly. In addition, attempting to display copy protected material on a monitor connected via a VCR, whether for the purpose of viewing or not, will cause an inferior quality picture to be displayed. This is not a fault of the equipment. Please view copy protected material by connecting the product directly to the monitor.

Recommended Measures for Optimum Picture Excellence
The player is a precision device that is constructed using extremely accurate technology.
Soiling or friction affecting the pickup lens or disc drive can impair the image quality. At the worst, neither video nor audio will be played back. Contact your authorised SHARP supplier for details.

Do not attempt to clean the pickup lens yourself.

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ABOUT THIS MANUAL

Instructions in this manual describe the controls on the remote control. You can also use the controls on the player if they have the same or similar names as those on the remote control.

Dear Customers

We would like to thank you for purchasing this DVD/DVD-RW/DVD-R/DVD+RW/DVD+R/VCD/S-VCD/AUDIO CD/CD-RW/CD-R/MP3/JPEG/MPEG-4/ DivX® player.

We strongly recommend that you carefully study the operating instructions before attempting to operate the player and that you note the listed safety precautions.

GENERAL PROPERTIES

1) DVD/DVD-RW/DVD-R/DVD+RW/DVD+R/VCD/S-VCD/AUDIO CD/CD-RW/CD-R/MP3/JPEG/MPEG-4/ DivX® playback

2) Official DivX® Certified product

Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files

3) PAL/NTSC playback (according to disc content)

4) User-friendly multi-language OSD menu control

5) Vacuum Fluorescent Display (VFD)

6) DTS, Dolby Digital, LPCM audio, MPEG audio via coaxial, optical and HDMI digital audio outputs

7) Multiple Aspect Ratio support (16:9 Wide screen, 4:3 Letterbox, 4:3 PAN & SCAN)

8) Multi-Audio (up to 8) support

9) Multi-Subtitle (up to 32) support

10) Multi-Angle (up to 9) support

11) 8 level parental control

12) Fast forward and reverse at different speeds

13) Slow motion playback at different speeds

14) Frame-by-frame forward playback

15) Time Search

16) Repeat (disc, title, chapter, A-B)

17) Programme function for Audio CD, MP3 and JPEG

18) Scart connector

19) Component video output (Progressive scan and Interlace)

20) Composite video output

21) HDMI digital audio and video output (up to 1080i conversion)

- Manufactured under licence from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.
- DVD is a trademark of DVD Format/Logo Licensing Corporation.
- “DTS” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc.
- DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under licence.
- “HDMI”, the HDMI logo and “High-Definition Multimedia Interface” are trademarks of HDMI Licensing LLC.

SUPPLIED ACCESSORIES

In the packaging material you will find the following:

(1) Remote control (2) Two R03 (AAA) batteries for the remote control (3) Operation manual

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DISC TYPES COMPATIBLE WITH THE PLAYER

The player can play the following discs.

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio + Video	12 cm	Single - sided; 240 min. Double - sided; 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 System. • Various screen and audio functions can be easily selected through the on-screen menu.
		8 cm	Single - sided; 80 min. Double - sided; 160 min.	
VIDEO-CD	Audio + Video	12 cm	74 min.	• Video with CD sound, VHS quality and MPEG-1 compression technology.
		8 cm	20 min.	
AUDIO-CD	Audio	12 cm	74 min.	• An LP is recorded as an analogue signal with more distortion. CD is recorded as a digital signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm	20 min.	
MP3-CD	Audio (xxxx.mp3)	12 cm	It depends on MP3 quality.	• MP3 is recorded as a digital signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm		
PICTURE-CD	Video (still picture)	12 cm	It depends on JPEG quality.	• JPEG is recorded as a digital signal with better picture quality over time.
		8 cm		
DivX®	Audio + Video	12 cm	It depends on DivX® quality.	• DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size.
		8 cm		

NOTE:

For DVD-RW/-R, DVD+RW/+R, only discs recorded in Video mode can be played back.

- Some DVD-RW/-R, DVD+RW/+R or CD-RW/-R discs made on personal computers, or on DVD recorders may not be played back properly due to the factors such as scratches, dirt or special properties of the disc.
- Discs made on personal computers may not be played back properly due to the different environment or the settings of the application you use. We recommend always to use the standardised, correctly formatted discs.

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The following discs cannot be played back on the player:

- **DVD with region codes other than 2 or ALL.**
- **DVD-ROM**
- **DVD-RAM (Never play back, otherwise malfunction may result.)**
- **CDV (Only plays back the audio part.)**
- **CD-ROM**
- **CD-G (Only plays back the sound.)**
- **CD-I (Never play back, otherwise malfunction may result.)**
- **Super Audio CD (Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density Super Audio CD layer cannot be delivered.)**
- **Photo CD (Never play back, otherwise malfunction may result.)**
- **DualDisc**

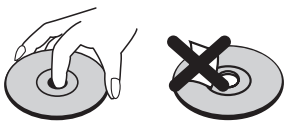
Any other discs without compatibility indications.

NOTE:

When an incompatible disc is inserted, a message appears in the VFD and the on-screen display indicating that the disc is not playable.

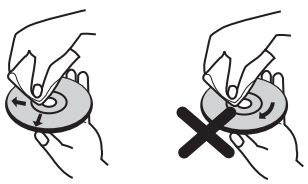
Notes on discs:

On handling discs



- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
- If the disc is contaminated with any substance such as glue, remove it before using the disc.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature can rise quickly and damage the disc.
- After playing, store the disc in its case.

On cleaning



- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the centre out.
- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

Discs that should not be used

Only the discs including the marks shown on page 5 can be played.

NOTE:

- Discs with special shapes (heart-shaped discs, hexagonal discs, etc.) cannot be played. Do not attempt to play such discs, as they may damage the player.
- Do not use record or anti-static spray. Also do not use volatile chemicals such as benzene or thinner.

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SAFETY PRECAUTIONS

Power Source

The player should be operated only from a 220-240 V, 50 Hz outlet. Please do not open the cover by yourself. There is high voltage in the player, which will endanger your life. Please contact a local service agent for help and advice. Repairs are to be carried out by a qualified technician only.

- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet.

Power Cord

Do not place the player, a piece of furniture, etc., on the power cord (mains lead), or pinch the cord. Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cord should be routed in such a way that it is not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your closest service agent for help. When the AC power cord needs to be changed, it should be done at a qualified service shop only.

Choice of Location

- Please do not place the player in a place subject to direct sunlight, excessive dust or mechanical shock or in a location near heat sources.
- The player should be placed on a solid and safe base. Do not place the player on a soft surface such as a rug that might block the ventilation holes on the bottom.
- Do not place the player in a room subject to high humidity, such as a kitchen, as condensation may cause malfunction or damage the player.
- Heating or other thermal radiation under the player also may cause malfunction or damage the player.
- The hot air, which arises during the operation, should be ventilated with sufficient air circulation. Please do not put the set into closed areas and do not cover it.
- Do not allow the player to come in contact with water or humidity. Do not use the player near a bath or swimming pool.
- Take care to provide good air circulation. Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

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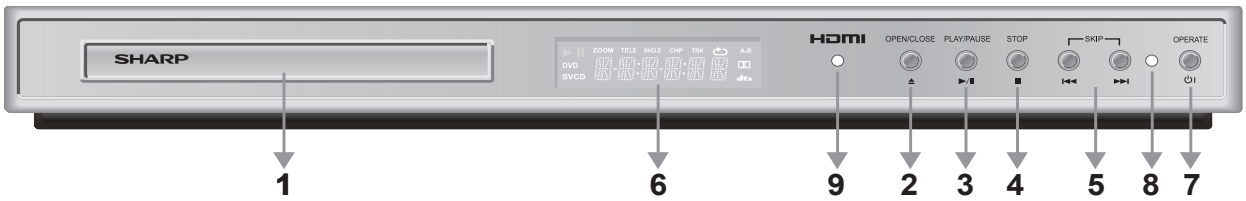
FRONT PANEL FUNCTIONS



1. Disc tray

Place a disc on the tray.

2. OPEN/CLOSE button

Opens or closes the disc tray.

3. PLAY/PAUSE button

Plays/pauses the disc.

4. STOP button

Stops playing the disc.

5. SKIP buttons

Press to go back to the preceding chapter/track or to go to the next chapter/track.

6. Front panel display (VFD)

Indicates the playing time, title, chapter/track, etc.

7. OPERATE button

Turns the player to Operate or Standby mode.

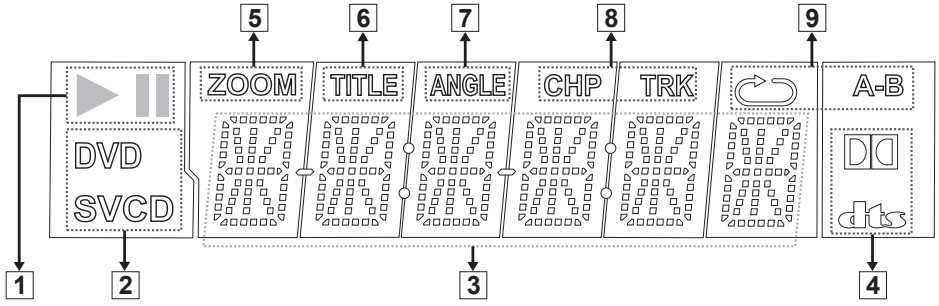
8. Operation indicator

Indicates the player's operational status.

9. HDMI indicator

Indicates whether the image output through HDMI can be viewed on the TV screen.

FRONT PANEL DISPLAY (VFD)



1. Play/Pause
2. Disc loaded
3. Time or Title / Chapter / Track number
4. Dolby Digital / DTS
5. Zoom
6. Title number
7. Angle
8. Chapter / Track number
9. Repeat

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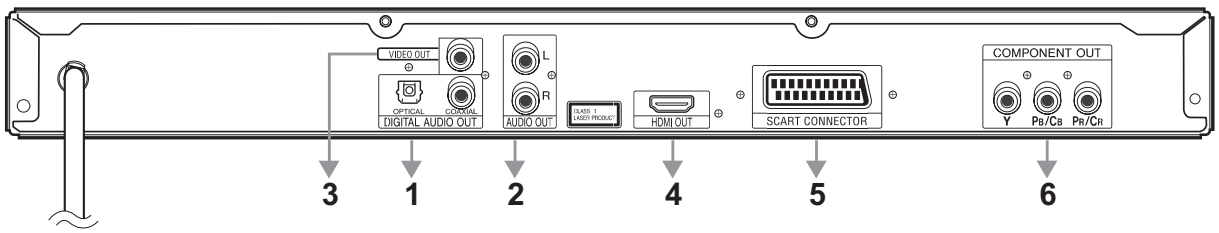
CONNECTORS ON THE REAR PANEL



1. DIGITAL AUDIO OUT connectors

OPTICAL :

Connects to an audio component using the optical digital connection cable.

COAXIAL :

Connects to an audio component using the coaxial digital connection cable.

2. AUDIO OUT connectors

Connects to the AV amplifier or audio input connector on the TV by using two cables (Left, Right).

3. VIDEO OUT connector

Connects to the TV using a video cable.

4. HDMI connector

Connects to the TV using the HDMI cable.

5. SCART connector

Connects to the TV using the SCART cable.

6. COMPONENT OUT connectors

Connects to the TV using a component video cable.

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CONNECTION OF THE PLAYER WITH TV

Be sure to turn off the power of each component before making the connections.

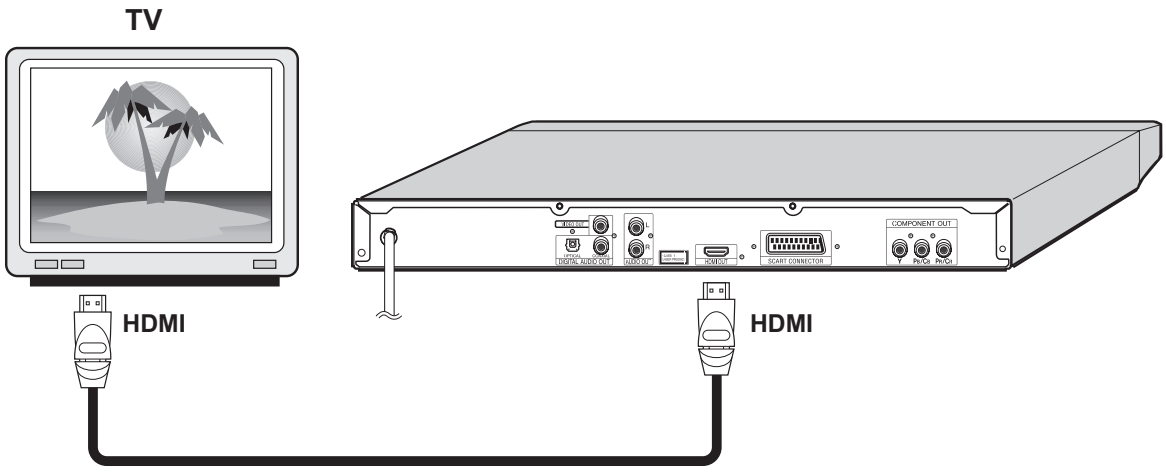
Use one video connection for best picture performance

When the player is connected to multiple video output connectors, the picture performance may be affected by undesired video signals from the connectors that are not selected.

For best picture performance, it is recommended that you select the appropriate item from “Video” setup menu and use only one video connection method. (See page 32.)

HDMI Connector:

The HDMI connector can be used to connect the player to your TV set or AV amplifier via the HDMI cable. For this connection, the TV set or AV amplifier must have an HDMI input connector.



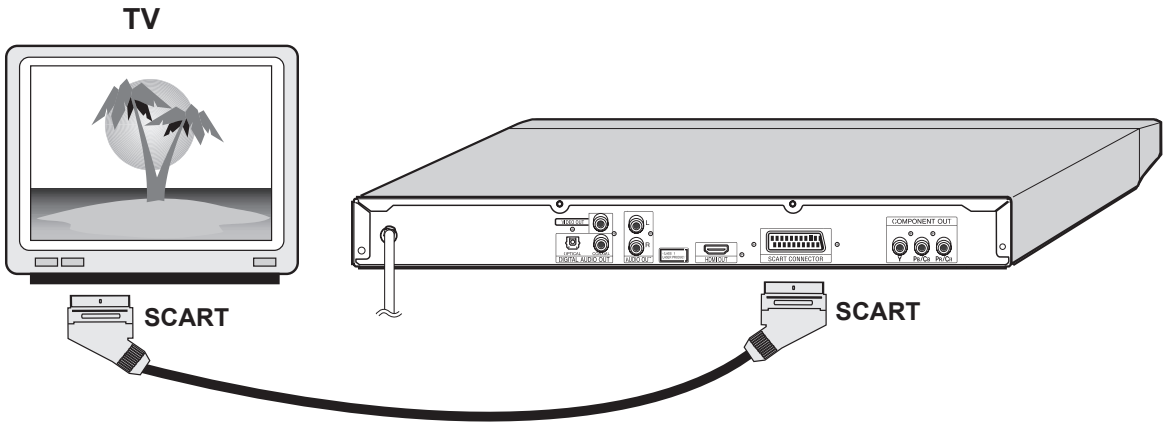
HDMI cable (commercially available)

NOTE:

- The HDMI connector does not support the DVI output using an HDMI-to-DVI adaptor or cable.
- The HDMI enables the TV to obtain optimal-resolution images automatically.
- You can manually change the output resolution (576p/720p/1080i) by using the **HDMI** button on the remote control.

SCART Connector:

If the player is not connected to a hi-fi set or AV amplifier to hear better sound, SCART is enough for both audio & video connections.



Scart cable (commercially available)

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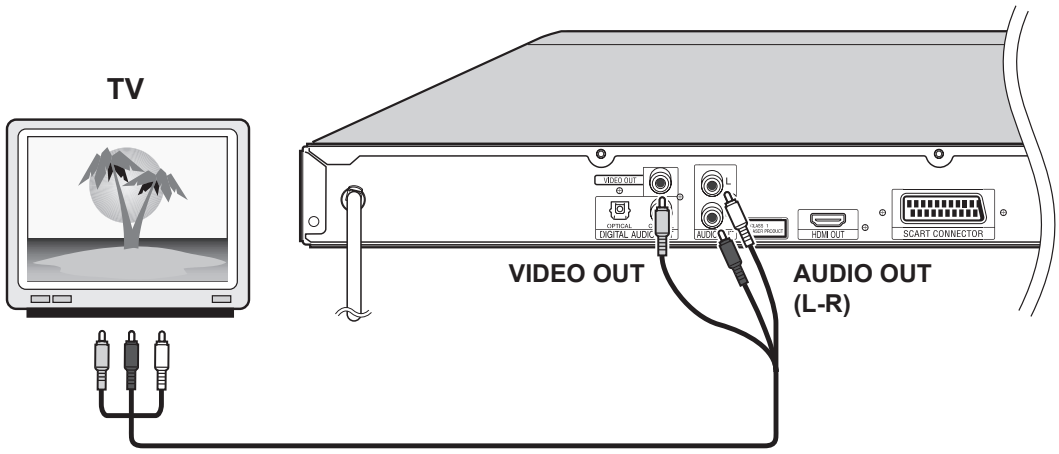
Video & Audio Output Connectors:

Video (yellow) and audio (red: right, white: left) output connectors can be used to connect the player to your TV set via cables. To make this connection, your TV set must have video and audio input connectors. This type of connection is alternative to scart connection. Picture quality is not as good as SCART RGB connection but audio performance is the same.

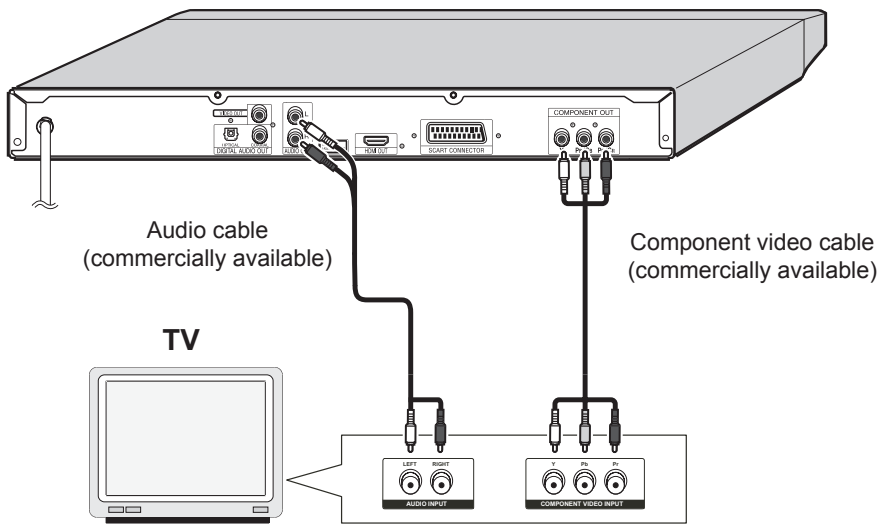


Audio/Video cable (commercially available)

Component Video & Audio Output Connectors:

- If your TV set has component video input connectors, you can take advantage of the player's Progressive Scan and YPBPR (YUV) output for a high video resolution.
- If the TV set connected with a component cable does not have the Progressive Scan features although the Video output mode of the player is set to "Y/PB/PR Progressive", no image will be produced. In this case, switch Video output mode from "Y/PB/PR Progressive" to "Y/PB/PR Interlace". (See page 32.)

1. Connect the **COMPONENT OUT** connectors on the player to the corresponding input connectors on the TV, using a component video cable.
2. Connect the **L-R AUDIO OUT** connectors of the player to the audio **Left - Right** input connectors on the TV using the audio cable.



Compatibility of the progressive scan TVs

Some progressive scan TVs are not fully compatible with the player, which may cause image distortion. In this case, switch Video output mode from "Y/PB/PR Progressive" to "Video", "Y/PB/PR Interlace" or "RGB".

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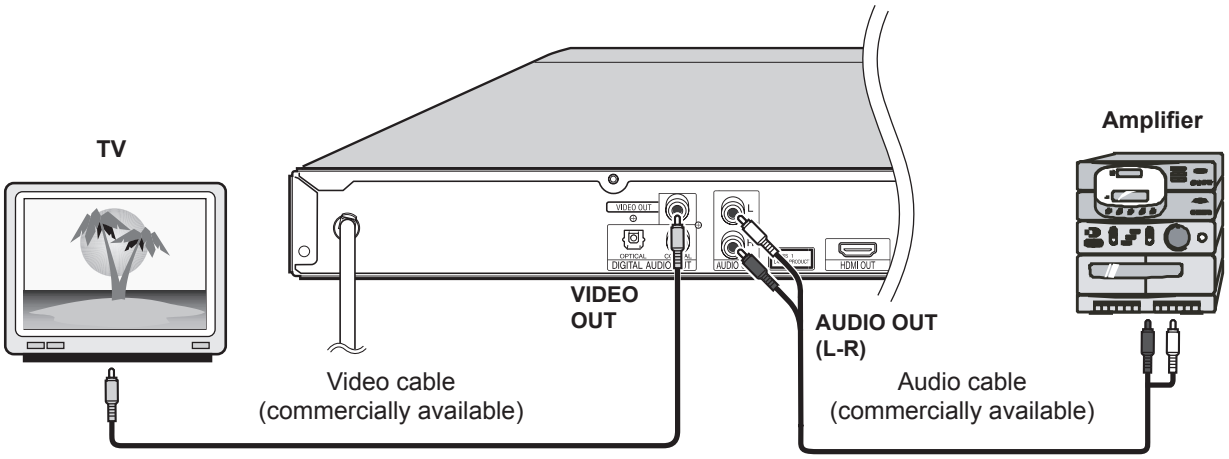
CONNECTION OF THE PLAYER WITH AV AMPLIFIER

Be sure to turn off the power of each component before making the connections.

Analogue Audio Output Connectors:

To achieve better sound quality, the player can be connected to an amplifier via **AUDIO OUT** connectors.



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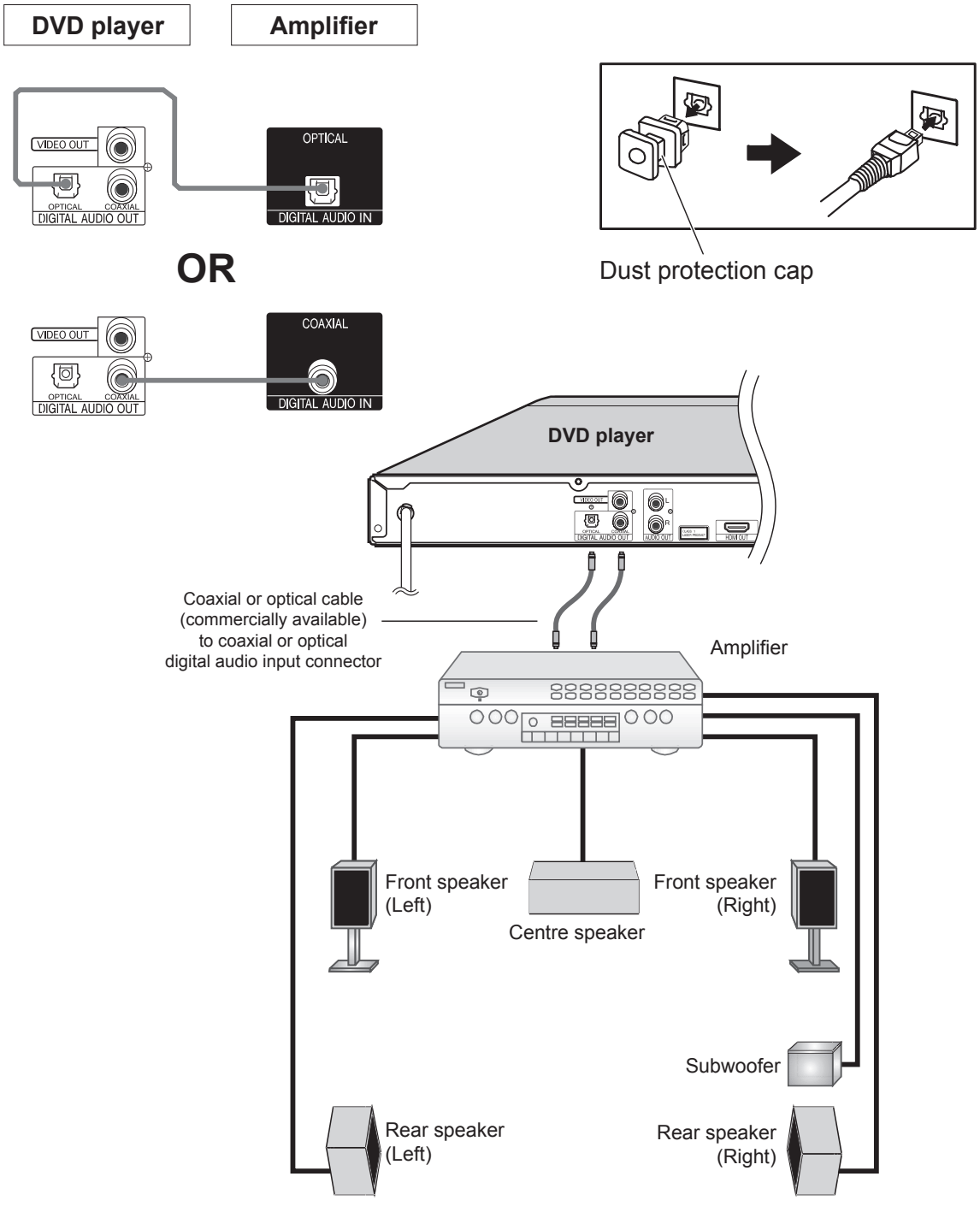
Digital Audio Output Connectors:

For the best sound, the player can be connected via optical or coaxial digital audio outputs to an AV amplifier with a built-in Dolby Digital/DTS/MPEG decoder. With the use of six speakers, you can enjoy 5.1-channel surround sound. (See page 33.)



Playing Dolby Digital, DTS or MPEG audio with a digital connection
Set the applicable type of signal (Dolby Digital, DTS or MPEG) in “Digital Output” to “Bitstream”. (See page 33.)

Playing 2 channel audio with a digital connection
Set the applicable type of signal (Dolby Digital or MPEG) in “Digital Output” to “LPCM”. (See page 33.)
For DTS, LPCM is not applicable.

NOTE:

- When the player is connected to a separate decoder box or amplifier through the **DIGITAL AUDIO OUT** connector, you may sometimes hear a short noise when selecting the sound system in the DVD menu. This is not a malfunction.

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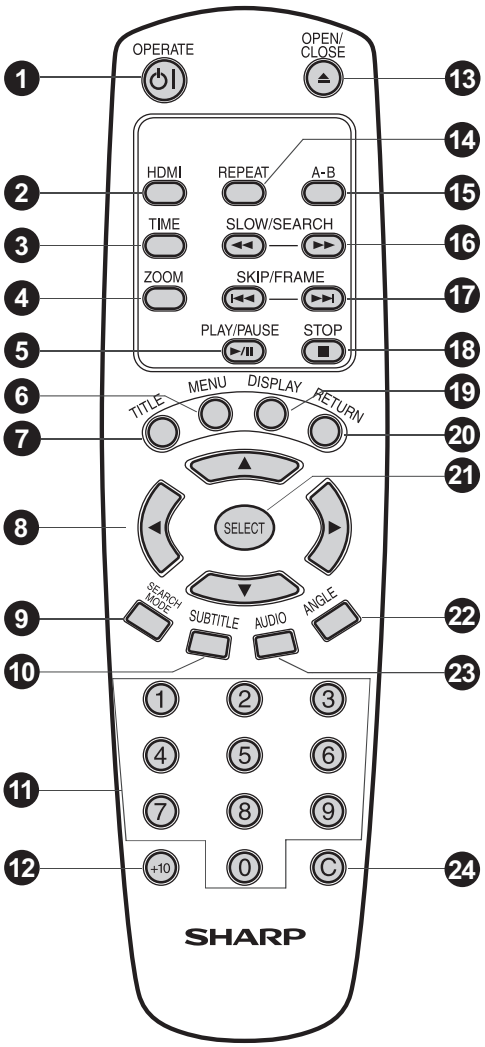
REMOTE CONTROL

When using the remote control, point it towards the front of the player. If the remote control does not work or the chosen function cannot be selected, the batteries are most probably exhausted and they should be replaced as soon as possible.



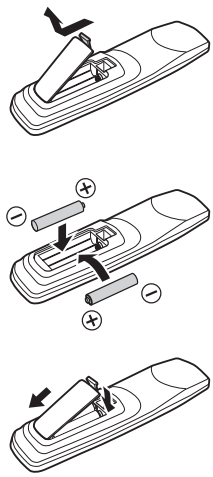
Inserting the Batteries

The batteries (two R-03 batteries (“AAA” size, UM/SUM-4, HP-16 or similar)) are included in the package.

1 Pull down the tab on the cover and remove the cover towards the direction of the arrow.

2 Insert the included batteries.
- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.

3 Insert the lower tab of the cover into the opening, and lower the cover until it clicks in place.



Incorrect use of the batteries may cause them to leak or explode. Please follow the precautions below.

⚠ Caution

- Danger of explosion if battery is incorrectly replaced.
  Replace only with the same or equivalent type.
- Insert the batteries making sure the polarities correctly match ⊕ and ⊖ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries.
  This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them can cause them to leak.
  Battery fluid from leaked batteries is harmful to your skin, therefore ensure that you first wipe them and then remove them using a cloth.
- The batteries included with the player may exhaust over a short period, depending on how they are kept.
  Be sure to replace them as soon as possible with new batteries.
- Remove the batteries from the remote control if you do not use the remote control for a long time.
- Comply with the rules (ordinance) of each local government when disposing of worn-out batteries.

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REMOTE CONTROL FUNCTIONS

1. **OPERATE button**
   Turns the player on or switches the player to Standby mode.
2. **HDMI button**
   Changes HDMI resolution.
3. **TIME button**
   Changes Playing time display mode of the disc, title, track, on the OSD and front panel display.
4. **ZOOM button**
   Zooms the picture.
5. **PLAY/PAUSE button**
   Plays/pauses the disc.
6. **MENU button**
   Displays the DVD root menu on the screen. During VCD playback, shows the VCD menu if it exists.
7. **TITLE button**
   Displays the title menu on the TV screen.
8. **◂ / ▸ / ▾ / ▴ buttons**
   Move to the items or settings.
9. **SEARCH MODE button**
   Puts the player in Search mode (title, chapter, track, time, index).
10. **SUBTITLE button**
    Changes the language of the subtitle and switches the selected subtitle on/off for DVD or DivX®.
11. **Number buttons**
    Press to directly enter track/chapter/title/time numbers.
12. **+10 button**
    Enters numbers greater than 9.
13. **OPEN/CLOSE (⏏) button**
    Opens or closes the disc tray.
14. **REPEAT button**
    Executes repeat, shuffle and programme functions.
15. **A - B button**
    Executes the A - B repeat play.
16. **SLOW/SEARCH buttons**
    Press to adjust the forward and reverse playback at different speed during playback (fast forward/reverse) and to adjust the forward playback at different speed during Pause mode (slow motion).
17. **SKIP/FRAME buttons**
    Go to the beginning of the current or next chapter/track during playback, or go to the next frame during pause.
18. **STOP button**
    Stops playing disc.
19. **DISPLAY button**
    Displays the current playing status or setup menu on the TV screen.
20. **RETURN button**
    Returns to the preceding selection screen.
21. **SELECT button**
    Executes the items or settings.
22. **ANGLE button**
    Changes the angle when playing a DVD.
23. **AUDIO button**
    Changes the language of the sound while playing a DVD.
    Changes the audio channel (Stereo/Left/Right) while playing a Video CD.
24. **C button**
    Deletes incorrect entries or cancel some functions.

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DVD PLAYBACK

Preparations

If the player has been connected to an audio system, turn it on and then turn on your TV.

Basic Play

1. Press **OPERATE**.
2. Press **OPEN/CLOSE** (⏏) to open the disc tray.
3. Place a disc onto the tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press **OPEN/CLOSE** (⏏).

A menu may be displayed on the TV screen after a few moments or the film may start immediately after the introduction of the Film Company. This behaviour depends on the disc content and may change.

5. Press ◀ / ▶ / ▼ / ▲ or the **number buttons** to select the preferred title.
6. Press **SELECT**.

Play of the selected items now starts. The played item may be a motion picture, a still picture or another submenu depending on the disc.

NOTE:

- Steps 5 and 6 are available only when a menu is recorded on the disc.
- The disc controls the behaviour of the player during menu operation.

To stop play and return to the menu screen (when a menu is available on the disc), press **MENU** or **TITLE** depending on the disc. Play is suspended, and the disc menu screen is displayed.

After operation

When the player is not in use, remove the disc and press **OPERATE** to turn off the player.

NOTE:

- The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press **STOP** (■) to clear the menu display.

For your reference:

If an action corresponding to a button is prohibited, "⊘" is displayed on the screen.

Stopping Play

Press **STOP** (■) twice.

When play is stopped, the player records the point where **STOP** (■) was pressed once (Resume function). Press **PLAY/PAUSE** again, and play will resume from this point. When the tray is opened or the **STOP** (■) is pressed again, the Resume function will be cleared.

To stop play permanently, press **STOP** (■) twice. When **STOP** (■) is pressed for the first time, the message "Press Play Key To Continue" is displayed on the screen to prompt you whether to continue play. To stop play press **STOP** (■) again or you can press **PLAY/PAUSE** to continue.

Fast Forward / Reverse

Press **SLOW/SEARCH** (◀◀ Fast reverse or ▶▶ Fast forward) on the remote control during playback.

Normal play is resumed when **PLAY/PAUSE** is pressed.

The speed of fast forward or fast reverse changes each time ▶▶ or ◀◀ is pressed.

Skip Forward / Backward

Press **SKIP/FRAME** (⏮ or ⏭) during playback.

The chapter is skipped forward or backward each time the button is pressed.

Pause

Press **PLAY/PAUSE** once during playback.

Play pauses.

To return to normal play:

Press **PLAY/PAUSE**.

Step Forward

Press **PLAY/PAUSE** once during playback.

Play pauses.

Press **SKIP/FRAME** (⏭).

The next frame of the movie is displayed.

Slow Motion Play Forward

Press **PLAY/PAUSE** once during playback.

Play pauses.

Press **SLOW/SEARCH** (▶▶ Slow forward) to increase or decrease the speed of the slow motion play.

The speed of slow motion play is displayed on the screen each time you change it.

To return to normal play:

Press **PLAY/PAUSE**.

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Direct Selection of Scenes

Selecting Scenes by Time and Title/Chapter Number

You can view the DVD starting from any desired time point or any title/chapter you want.

Press **SEARCH MODE** on the remote control during playback or in Stop mode.

The “Time” and “Title/Chapter” search box is displayed on the screen.

For setting time, enter the desired time in the “Time” field using **number buttons** and press **SELECT**.

The disc is played beginning from the desired time, if not prohibited by the DVD.

For setting a title/chapter, press ▼ or ▶ to select the “Title” or “Chapter” field, enter the desired title/chapter number using **number buttons** and press **SELECT**.

The disc is played beginning from the desired title/chapter, if not prohibited by the DVD.

If you enter a wrong number, press **C** to clear the field.

You can press **RETURN** to cancel Search mode.

Selecting Scenes using Bookmark Function

You can bookmark up to three frames during playback.

The bookmarked frames will be quickly searched out and played back.

Press **SEARCH MODE** twice on the remote control during playback.

The “Bookmark” box is displayed on the screen.

To close the “Bookmark” box, press **RETURN**.

Bookmarking

Display the “Bookmark” box during playback.

Press ▲ or ▼ to select a “Bookmark” field, and when a desired frame is displayed, press **SELECT**. The runtime of the bookmarked frame is displayed in the “Bookmark” field.

Playback of Bookmarked Frames

Display the “Bookmark” box during playback.

Press ▲ or ▼ to select the desired “Bookmark” field and press **SELECT**. The bookmarked frame will be played back.

Removing Bookmarks

Display the “Bookmark” box during playback.

Press ▲ or ▼ to select the “Bookmark” field you want to remove and press **C**. The bookmark will be removed.

NOTE:

- The bookmark is cancelled when:
  - The disc tray is opened.
  - The power is turned off.

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Repeat Play

Repeat Viewing

Press **REPEAT** during playback. The “Play Mode” box is displayed on the screen.

Press ▼ to select the “Repeat” field and select one of the items “Chapter”, “Title” and “Off” by using **SELECT**.

Press **REPEAT** to close the “Play Mode” box.

If “Chapter” is selected, the current chapter will be played again.

If “Title” is selected, the current title will be played again.

If “Off” is selected, Repeat mode is disabled.

NOTE:

- For DVDs, the “Mode” field in the “Play Mode” box cannot be changed.
- Repeat play may be prohibited by some DVD titles.

Repeating Sections between Two Specific Points (A – B Repeat)

Press **A-B** during playback at the point where Repeat play is to start (A).

“A To B Set A” is displayed on the screen.

Press **A-B** again at the point where Repeat play is to end (B).

“A To B Set B” is displayed and Repeat play of the selection between points A and B starts, if not prohibited by the DVD.

To return to normal play:

Press **A-B** again. “A To B Cancelled” is displayed and the A-B Repeat is disabled.

Convenient Functions

Displaying the Time Information

Press **DISPLAY** during playback.

Information is displayed on TV screen to indicate the current status of the disc. In the display screen you can find the following information lines:

Line 1: Elapsed time and remaining time of title

Line 2: Title number, chapter number and angle number

Line 3: Audio language number, audio format, number of output channels and audio language

Line 4: Subtitle language number and subtitle language

Press **DISPLAY** once more to close this display screen.

You can also display the time by pressing **TIME**.

Elapsed/Remaining times of title appear.

Press **TIME** once more to close this display screen.

Displaying a Scene with a Larger and Closer View

Zoom function enables you to take a closer look at the scene you are viewing. This is particularly convenient when you want to zoom in on part of the picture.

Press **ZOOM** during playback.

Press **ZOOM** consecutively to display the picture at different magnifications.

NOTE:

- Use ◀ / ▶ / ▼ / ▲ to move the zoomed location.

To return to normal play:

Press **ZOOM** consecutively until “Q Off ” is displayed on the screen. The picture is now in its normal size.

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Displaying / Changing Subtitle Language

It is possible to change the subtitle language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple subtitle languages are recorded.)

Press **SUBTITLE** during playback.

When no subtitles are recorded, "Off " is displayed on the screen instead of the selected language.

Press **SUBTITLE** consecutively until the preferred language is selected.

When this button is pressed once, the first subtitle recorded on the disc is displayed. The rest of the subtitles recorded are displayed in sequence for each time **SUBTITLE** is pressed.

To cancel the subtitles, press **SUBTITLE** consecutively until "Off " is displayed on the screen.

NOTE:

- In some cases, the subtitle language is not changed immediately to the selected one.
- When the desired language cannot be found after pressing **SUBTITLE** several times, it means that the language is not available on the disc.
- When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.
- If a language that is not supported by the disc is selected, the subtitle language is automatically set to the disc's default language.

Changing Audio Soundtrack Language

It is possible to change the audio language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple audio soundtrack languages are recorded.)

Press **AUDIO** during playback.

Press **AUDIO** consecutively until the preferred language is selected.

NOTE:

- When the desired language cannot be found after pressing **AUDIO** several times, it means that the language is not available on the disc.
- When the player is restarted or the disc is changed, the language selection is automatically changed back to the initial settings.
- If a language that is not supported by the disc is selected, the language is automatically set to the disc's default language.

Viewing from Another Angle

Some DVDs may contain scenes that have been shot simultaneously from a number of different angles. For these discs, the same scenes can be viewed from each of these different angles using **ANGLE**.

The number of recorded angles differs depending on the disc used.

"ANGLE" is also displayed on the player display. From that moment on, the **x**th of total angles is played and you can change the viewing angle until the end of the multi-angle scene.

Press **ANGLE** during playback.

The current angle is changed.

Press **ANGLE** consecutively until the preferred viewing angle is selected.

NOTE:

- This function will only work on discs where different angles have been recorded.
- The viewing angles are shown on the screen. You can select one of them for viewing.
- If you press **ANGLE** outside of a multi-angle scene on a multi-angle title, "1/1" is displayed on the screen. It means that only one angle is currently available.

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Using a DVD Menu

Some DVDs have unique menu structures called DVD menus. For example, DVDs programmed with complex content provide guide menus, and those recorded with various languages provide menus for audio and subtitle languages. Although the DVD menu content and operations differ from disc to disc, the following explains basic operation when this feature is available.

Press **TITLE** or **MENU**.

The DVD menu available on the disc is now displayed.

NOTE:

- If you press **MENU**, the root menu of DVD is displayed.
- If you press **TITLE**, the menu of the current title is displayed.
- **MENU** does not function in Stop mode.

Press ◀ / ▶ / ▼ / ▲ to select the preferred item.

Press **SELECT**.

The selected item is now executed.

To resume playback, select an applicable item on the DVD menu.

NOTE:

- Some DVDs may not contain root and/or title menus.

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VIDEO CD PLAYBACK

Preparations

If the player has been connected to an audio system, turn it on and then turn on your TV.

Basic Play

1. Press **OPERATE**.
2. Press **OPEN/CLOSE** (⏏) to open the disc tray.
3. Place a disc onto the tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press **OPEN/CLOSE** (⏏).

The disc tray is closed.

For Video CDs without playback control (PBC):

Play starts immediately.

For Video CDs provided with playback control (PBC):

If the disc contains a menu, the menu is displayed on the screen after a few moments.

Menu Play

This function works only with Video CDs with playback control (Version 2.0).

Follow the instructions on the menu screen for interactive operation.

The details differ depending on the disc concerned. Also refer to the instructions accompanying the disc.

After steps 1 to 4 above the menus are displayed on the TV screen.

5. Press the **number buttons** to select the preferred item.

The player now starts to play the selected item.

NOTE:

- Use **+10** to enter two-digit numbers.
- ◀ / ▶ / ▼ / ▲ are not used for selecting items for Video CDs.

What is playback control (PBC)?

If a Video CD has “playback control” written on the disc, it means that particular scenes or information can be selected for viewing interactively with the TV by using the menu screen.

Switching PBC On/Off

Press **REPEAT** when a Video CD with PBC is inserted.

The “Play Mode” box is displayed on the screen.

Select the “Mode” field in the “Play Mode” box and press **SELECT**.

Each time this button is pressed, PBC switches On and Off alternately.

NOTE:

- For Video CDs without PBC, the “Mode” field in the “Play Mode” box cannot be changed.
- For Video CDs with PBC, you can also use **MENU** to switch PBC On and Off.

When the menu continues onto another screen

After step 4, press **SKIP/FRAME** (⏭).

To return to the previous menu screen, press **SKIP/FRAME** (⏮).

NOTE:

- The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press **STOP** (■) to clear the menu display.

For your reference:

When “⃠” is displayed on the screen while a button is being operated, it means that the player prohibits the corresponding operation.

Stopping Play

For Video CDs without PBC or when PBC mode is “Off ”.

Press **STOP** (■) twice.

When play is stopped, the player records the point where **STOP** (■) was pressed once (Resume function). Press **PLAY/PAUSE** again, and play will resume from this point. When the tray is opened or **STOP** (■) is pressed again, Resume function will be cleared.

To stop play permanently, press **STOP** (■) twice. When **STOP** (■) is pressed once, the message “Press Play Key To Continue” is displayed on the screen to prompt you whether to continue play. To stop play press **STOP** (■) again or you can press **PLAY/PAUSE** to resume play.

For Video CDs with PBC and when PBC mode is “On”.

Press **STOP** (■) once.

No Resume function is available.

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Fast Forward / Reverse

Press **SLOW/SEARCH** (◀◀ Fast reverse or ▶▶ Fast forward) on the remote control during playback.

Press **PLAY/PAUSE** to resume normal play.

The speed of fast forward or fast reverse changes each time ▶▶ or ◀◀ is pressed.

NOTE:

• No sound will be heard during fast forward or reverse.

Skip Forward / Backward

Press **SKIP/FRAME** (⏮ or ⏭) during playback.

The track is skipped forward or backward each time the button is pressed.

Pause

Press **PLAY/PAUSE** once during playback.

Play pauses.

To return to normal play:

Press **PLAY/PAUSE**.

Step Forward

Press **PLAY/PAUSE** once during playback.

Play pauses.

Press **SKIP/FRAME** (⏭).

The next frame of the movie is displayed.

NOTE:

• Reverse stepping is not available.

Slow Motion Play Forward

Press **PLAY/PAUSE** once during playback.

Play pauses.

Press **SLOW/SEARCH** (▶▶ Slow forward) to increase or decrease the speed of slow motion play.

The speed of slow motion play is displayed on the screen each time you change it.

To return to normal play:

Press **PLAY/PAUSE**.

NOTE:

• Reverse slow motion play is not available.

Direct Selection of Scenes

Selecting Scenes by Time and Track Number

You can view the Video CD starting from any desired time point or any track you want.

Track Search

Press **SEARCH MODE** on the remote control during playback.

The “Track Search” box is displayed on the screen.

For setting time, enter the desired time in the “Time” field using **number buttons** and press **SELECT**.

The player jumps to the entered time of the current track.

For setting a track, press ▼ to select the “Track” field, enter the desired track number using **number buttons** and press **SELECT**.

The disc is played beginning from the desired track.

If you enter a wrong number, press **C** to clear the field.

Press **RETURN** to cancel Search mode.

Disc Search
(Video CDs without PBC or when PBC mode is “Off ”)

Press **SEARCH MODE** twice during playback.

The “Disc Search” box is displayed on the screen.

For setting time, enter the desired time in the “Time” field using **number buttons** and press **SELECT**.

The player jumps to the entered time of the disc.

For setting a track, press ▼ to select the “Track” field, enter the desired track number using **number buttons** and press **SELECT.**

The disc is played beginning from the desired track.

If you enter a wrong number, press **C** to clear the field.

Press **RETURN** to cancel Search mode.

NOTE:

• This operation is not available when PBC mode is “On”.

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Selecting Scenes using Bookmark Function

You can bookmark up to three frames during playback.

The bookmarked frames will be quickly searched out and played back.

For Video CDs without PBC or when PBC mode is “Off ”, press **SEARCH MODE** three times during playback.

For Video CDs with PBC and when PBC mode is “On”, press **SEARCH MODE** twice during playback.

The “Bookmark” box is displayed on the screen.

To close the “Bookmark” box, press **RETURN**.

Bookmarking

Display the “Bookmark” box during playback

Press ▲ or ▼ to select a “Bookmark” field, and when a desired frame is displayed, press **SELECT**. The runtime of the bookmarked frame is displayed in the “Bookmark” field.

Playback of Bookmarked Frames

Display the “Bookmark” box during playback.

Press ▲ or ▼ to select the desired “Bookmark” field and press **SELECT**. The bookmarked frame will be played back.

Removing Bookmarks

Display the “Bookmark” box during playback.

Press ▲ or ▼ to select the “Bookmark” field you want to remove and press **C**. The bookmark will be removed.

NOTE:

- The bookmark is cancelled when:
  - The disc tray is opened.
  - The power is turned off.
- What box is displayed depends on both whether PBC is activated and on how many times **SEARCH MODE** is pressed. See the table below.

Number of times **SEARCH MODE** is pressed	Discs with PBC On	Discs without PBC Discs with PBC Off
1	“Track Search” box	“Track Search” box
2	“Bookmark” box	“Disc Search” box
3	–	“Bookmark” box

Repeat Play

Press **REPEAT** during playback.

The “Play Mode” box is displayed on the screen.

Press ▼ to select the “Repeat” field and choose one of the items by using **SELECT**.

Selectable items depend on whether PBC is activated or not.

Playback control (PBC)	Discs with PBC On	Discs without PBC Discs with PBC Off
Items of Repeat play	Off → All	Off → Single Track → All

If “Single Track ” is selected, the current track will be played again.

If “All ” is selected, the whole disc will be played again.

If “Off ” is selected, Repeat play is disabled.

Repeating Sections between Two Specific Points (A – B Repeat)

Press **A-B** during playback at the point where Repeat play is to start (A).

“A To B Set A” is displayed on the screen.

Press **A-B** again at the point where Repeat play is to end (B).

“A To B Set B” is displayed and Repeat play of the selection between points A and B starts.

To return to normal play:

Press **A-B** again. “A To B Cancelled” is displayed and the A-B Repeat is disabled.

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Convenient Functions

Displaying the Time Information

Press **DISPLAY** during playback.

Information is displayed on TV screen to indicate the current status of the disc. In the display screen you can find the following information lines:

Line 1: Type of Video CD, elapsed time and remaining time of track

Line 2: Track numbers

Press **DISPLAY** once more to close this display screen.

You can also display the time by pressing **TIME**.

Elapsed/Remaining times of track appear.

Press **TIME** once more to close this display screen.

Displaying a Scene with a Larger and Closer View

Zoom function enables you to take a closer look at the scene you are viewing. This is particularly convenient when you want to zoom in on part of the picture.

Press **ZOOM** during playback.

Press **ZOOM** consecutively to display the picture at different magnifications.

NOTE:

- Zoom function works only when PBC mode is “Off ”.
- Use ◀ / ▶ / ▼ / ▲ to move the zoomed location.

To return to normal play:

Press **ZOOM** consecutively until “Off ” is displayed on the screen. The picture is now at normal size.

AUDIO CD PLAYBACK

Preparations

If the player has been connected to an audio system, turn it on.

Basic Play

1. Press **OPERATE**.
2. Press **OPEN/CLOSE** (⏏) to open the disc tray.
3. Place a disc onto the tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press **OPEN/CLOSE** (⏏).

Play starts.

After operation

When the player is not in use, remove the disc and press **OPERATE** to turn off the player.

For your reference:

When “⃠” is displayed on the screen while a button is being operated, it means that the corresponding operation is prohibited by the player.

Stopping Play

Press **STOP** (■) twice.

When play is stopped, the player records the point where **STOP** (■) was pressed once (Resume function). Press **PLAY/PAUSE** or **SELECT** again, and play will resume from this point. When the tray is opened or **STOP** (■) is pressed again, Resume function will be cleared.

To stop play permanently, press **STOP** (■) twice. When **STOP** (■) is pressed once, the message “Press Play Key To Continue” is displayed on the screen to prompt you whether to continue play. To stop play press **STOP** (■) again or you can press **PLAY/PAUSE** to resume play.

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Fast Forward / Reverse

Press **SLOW/SEARCH** (◀◀ Fast reverse or ▶▶ Fast forward) on the remote control during playback.

The speed of fast forward or fast reverse changes each time ▶▶ or ◀◀ is pressed.

Press **PLAY/PAUSE** to resume normal play.

NOTE:

• No sound will be heard during fast forward or reverse.

Skip Forward / Backward

Press **SKIP/FRAME** (⏮ or ⏭) during playback.

The track is skipped forward or backward each time the button is pressed.

Pause

Press **PLAY/PAUSE** once during playback.

Play pauses.

To return to normal play:

Press **PLAY/PAUSE**.

Direct Selection of Tracks

Selecting Scenes by Time and Track Number

You can play back the Audio CD starting from any desired time point or any track you want.

Track Search

Press **SEARCH MODE** on the remote control during playback.

The “Track Search” box is displayed on the screen.

For setting time, enter the desired time in the “Time” field using **number buttons** and press **SELECT**.

The player jumps to the entered time of the current track.

For setting a track, press ▼ to select the “Track” field, enter the track number using **number buttons** and press **SELECT**.

The disc is played beginning from the desired track.

If you enter a wrong number, press **C** to clear the field.

Press **RETURN** to cancel “Track Search”.

Disc Search

Press **SEARCH MODE** twice during playback.

The “Disc Search” box is displayed on the screen.

For setting time, enter the desired time in the “Time” field using **number buttons** and press **SELECT**.

The player jumps to the entered time of the disc.

For setting a track, press ▼ to select the “Track” field, enter the track number using **number buttons** and press **SELECT**.

The disc is played beginning from the desired track.

Press **RETURN** to cancel “Disc Search”.

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Selecting using Bookmark Function

You can bookmark up to three time points during playback. The bookmarked time points will be quickly searched out and played back.

Press **SEARCH MODE** three times during playback.

The “Bookmark” box is displayed on the screen.

Press **RETURN** to close the “Bookmark” box.

Bookmarking

Display the “Bookmark” box during playback.

Press ▲ or ▼ to select a “Bookmark” field, and when the desired part is reached, press **SELECT**. The bookmarked time point is displayed.

Playback of Bookmarked time point

Display the “Bookmark” box during playback.

Press ▲ or ▼ to select the desired “Bookmark” field and press **SELECT**. The bookmarked time point will be played back.

Removing Bookmarks

Display the “Bookmark” box during playback.

Press ▲ or ▼ to select the “Bookmark” field you want to remove and press **C**. The bookmark will be removed.

NOTE:

- The bookmark is cancelled when:
  - The disc tray is opened.
  - The power is turned off.

Repeat Play

Press **REPEAT** during playback.

The “Play Mode” box is displayed on the screen.

Press ▼ to select the “Repeat” field and choose one of the items by using **SELECT**.

If “Single Track ” is selected, the current track will be played again.

If “All ” is selected, the whole disc will be played again.

If “Off ” is selected, Repeat play is disabled.

NOTE:

- If “All” is selected and the programme list (Programme function) is active, the programme list is repeated instead of the whole disc.

Repeating Sections between Two Specific Points (A – B Repeat)

Press **A-B** during playback at the point where Repeat play is to start (A).

“A To B Set A” is displayed on the screen.

Press **A-B** again at the point where Repeat play is to end (B).

“A To B Set B” is displayed and Repeat play of the selection between points A and B starts.

To return to normal play:

Press **A-B** again. “A To B Cancelled” is displayed and the A-B Repeat is disabled.

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Convenient Functions

Displaying the Time Information

Press **DISPLAY** during playback.

Information is displayed on TV screen to indicate the current status of the disc. In the display screen you can find the following information lines:

Line 1: Type of CD, elapsed time and remaining time of track

Line 2: Track numbers

Press **DISPLAY** once more to close this display screen.

You can also display the time by pressing **TIME**.

Elapsed/Remaining times of track appear.

Press **TIME** once more to close this display screen.

Programme Function

Press **STOP** (■) if a track is being played.

1. Press **REPEAT**. The “Play Mode” box is displayed on the screen. You can press **REPEAT** again to close the “Play Mode” box.
2. Press **SELECT**. The programme list is displayed on the screen.
3. Press ◄ / ► / ▼ / ▲ to select a field in the programme list and enter the track number using **number buttons**.
4. After entering the track number, press ◄ / ► / ▼ / ▲ to select “Play Program” and then press **SELECT**.

The screen is cleared and the player starts playing the programme list.

NOTE:

- You can remove the track from the programme list by pressing **C**.
- You can programme up to twelve tracks.
- During playback, you cannot set the Programme function.
- The programme is cancelled when:
  - “Off ” is selected in the “Mode” field in the “Play Mode” box.
  - The disc tray is opened.
  - The power is turned off.

Shuffle Playback

Press **REPEAT** during playback.

The “Play Mode” box is displayed on the screen.

Press **SELECT** to select “Shuffle” in the “Mode” field.

Tracks in the disc will be played back randomly.

Press **REPEAT** again to close the “Play Mode” box.

NOTE:

- In Shuffle playback, Repeat is set to “Off ”.

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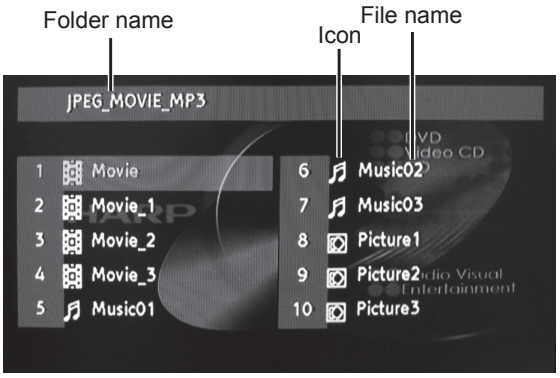
DISC MENU

You can see the Disc menu of MP3, JPEG, MPEG-4 or DivX® files.



: MP3 : MPEG-4 or DivX® : JPEG

In the following explanations, white-letter signs indicating file types are shown. The function mentioned there are only available for the files represented by the signs. If no signs are shown, the function works for any file.

Basic Play

1. Press **OPERATE.**
2. Press **OPEN/CLOSE** (⏏) to open the disc tray.
3. Place a CD-R/CD-RW disc onto the tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press **OPEN/CLOSE** (⏏) to close the disc tray.

Disc loading message is displayed on the screen. Please wait for a moment.

Disc menu is displayed. Folders and files are listed.

5. Press ◀ / ▶ / ▼ / ▲ to select a folder and a file to be played.
6. Press **SELECT** on a file to play.

JPEG

Selected JPEG is displayed in full screen.

Slide Show starts automatically.

Pause

Press **PLAY/PAUSE** once during playback.

To return to normal play:

Press **PLAY/PAUSE**.

Stopping Play

Press **STOP** (■), play is stopped.

Disc menu is displayed.

Fast Forward / Reverse

MP3 **MPEG-4** **DivX®**

Press **SLOW/SEARCH** (◀◀ or ▶▶) during playback to decrease/increase play speed.

To return to normal play:

Press **PLAY/PAUSE**.

NOTE:

- No sound will be heard during fast forward or reverse.

Skip Forward / Backward

Press **SKIP/FRAME** (⏭) during playback.

The next file in the current directory is played.

Press **SKIP/FRAME** (⏮) during playback.

For JPEG files, the previous file is played.

For MP3, MPEG-4 or DivX® files, playback starts from the beginning of the current file.

Slow Motion Play Forward

DivX® **MPEG-4**

Press **PLAY/PAUSE** once during playback.

Play pauses.

Press **SLOW/SEARCH** (▶▶ Slow forward) to increase or decrease the speed of slow motion play.

The speed of slow motion play is displayed on the screen each time you change it.

To return to normal play:

Press **PLAY/PAUSE**.

NOTE:

- Reverse slow motion play is not available.

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Displaying the Time Information

DivX®

You can display the time by pressing **TIME**.

Press **TIME** once more to close the display screen.

Zoom

JPEG

Press **PLAY/PAUSE** to start slide show.

You can zoom in/out and pan.

Press **ZOOM** to turn on/off this function.

When this mode is on, pictures are displayed at the last selected magnification.

The current magnification is displayed on the screen.

If Zoom mode is on, press **SLOW/SEARCH** (◀◀ or ▶▶) to control the zoom in/out magnification.

MPEG-4 DivX®

Zoom function enables you to take a closer look at the scene you are viewing. This is particularly convenient when you want to zoom in on part of the picture.

Press **ZOOM** during playback.

Press **ZOOM** consecutively to display the picture at different magnifications.

NOTE:

• Use ◀ / ▶ / ▼ / ▲ to move the zoomed location.

Repeat Play

Press **REPEAT** in Stop mode.

The “Play Mode” box is displayed on the screen.

Press ▼ to select the “Repeat” field and choose one of the items by using **SELECT**.

If “Single Track” is selected, the current track will be played again.

If “All” is selected, the whole disc will be played again.

If “Folder” is selected, the current whole folder will be played.

If “Off” is selected, Repeat play is disabled.

NOTE:

• If “All” is selected and a programme list is active, the programme list is repeated instead of the whole disc.

For JPEG files, Repeat mode setting is momentarily displayed in Slide show mode.

Repeating Sections between Two Specific Points (A – B Repeat)

MPEG-4 DivX®

Press **A-B** during playback at the point where Repeat play is to start (A).

“A To B Set A” is displayed on the screen.

Press **A-B** again at the point where Repeat play is to end (B).

“A To B Set B” is displayed and Repeat play of the selection between points A and B starts.

To return to normal play:

Press **A-B** again. “A To B Cancelled” is displayed and the A-B Repeat is disabled.

Programme Function

Press **STOP** (■) if a track is being played.

1. Press **REPEAT**. The “Play Mode” box is displayed on the screen. You can press **REPEAT** again to close the “Play Mode” box.
2. Press **SELECT**. The programme list is displayed on the screen.
3. Press ◀ / ▶ / ▼ / ▲ to select a field in the programme list and enter the track number using **number buttons**.
4. After entering the track number, press ◀ / ▶ / ▼ / ▲ to select “Play Program” and then press **SELECT**.

The screen is cleared and the player starts playing the programme list.

NOTE:

• You can remove the track from the programme list by pressing **C**.

• You can programme up to twelve tracks.

• During playback, you cannot set the Programme function.

• The programme is cancelled when:

- The disc tray is opened.

- The power is turned off.

Shuffle Playback

Press **REPEAT** during playback.

The “Play Mode” box is displayed on the screen.

Press **SELECT** to select “Shuffle” in the “Mode” field.

Files in the disc will be played back randomly.

Press **REPEAT** again to close the “Play Mode” box.

NOTE:

• In Shuffle playback, Repeat is set to “Off ”.

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Rotating

JPEG

JEPG files can be rotated in clockwise direction by pressing **ANGLE**.

Subtitle Setting

DivX®

Focus on a DivX® file and press **SELECT**.

If there is more than one subtitle, focus on the related subtitle file of DivX® file and press **SELECT**.

The DivX® file starts playing with the selected subtitle.

You can change the language of the subtitle and switch selected subtitle on/off by pressing **SUBTITLE**.

NOTE:

- Some external subtitle files may be displayed incorrectly or not at all.
- The following subtitle format file name extensions are supported: .sub, .ssa, .srt, .smi, .psb, .ass. For more details, see “DivX(R) Subtitle” on page 31.

USING SETUP MENU

Press **DISPLAY** when the player is not in Playback mode.

The setup menu is displayed. You can use this menu to change the player settings.

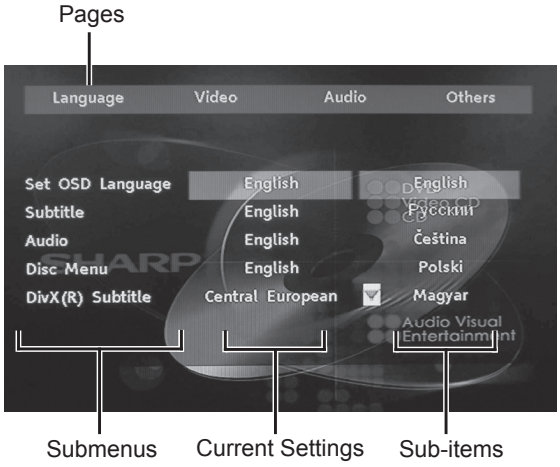
Using Pages

Select pages using ◄ or ►.

When selected, the page name will be highlighted.

Press **SELECT** to enter the selected page.

The submenu for the selected item is displayed on the screen, the items on the right of the submenus are current settings.



NOTE:

- To return to top page, press ▲ when the top item on the submenu is selected.
- To close the setup menu, press **DISPLAY**.

Using Submenus

Press ▲ or ▼ to select an item you want to change and press **SELECT**.

Its corresponding sub-items are displayed on the right of the current settings.

Press ▲ or ▼ to select the sub-item you want to change and press **SELECT**.

NOTE:

- To close the sub-items and return to the current settings, press ◄.
- For some submenus, no sub-items will be displayed.

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LANGUAGE SETUP

Set OSD Language:

You can select the default OSD language of the player menus.

Subtitle:

You can select the default subtitle language if supported by the DVD.

Audio:

You can select the default audio language if supported by the DVD.

Disc Menu:

You can select the DVD menu language. The disc menu is displayed in the selected language, if supported by the DVD.

DivX(R) Subtitle:

You can select a DivX® subtitle language from among “Western European”, “Central European” and “Slavonic Cyrillic”.

Western European:

Albanian, Catalan, Danish, Dutch, English, Finnish, French, German, Irish, Italian, Norwegian, Portuguese, Spanish, Swedish

Central European:

Croatian, Czech, Hungarian, Polish, Romanian, Slovak, Slovenian, Sorbian

Slavonic Cyrillic:

Bulgarian, Russian, Ukrainian

VIDEO SETUP

TV Type:

The aspect ratio of the picture provided by the player can be varied in line with the features available on the TV in use.

The items available are:

4:3 PS (4x3 Pan & Scan):

Allows you to see the movie in full screen on your TV, but the right and left edges are obscured. This feature is disc dependent.

4:3 LB (4x3 Letterbox):

Allows you to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen.

16:9 (Wide screen 16x9):

Choose this setting if the player is connected to a wide screen TV.

NOTE:

- Depending on the format of the DVD (e.g. 2.35:1), black lines may still be displayed above and below the picture.

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Set TV Standard:

Select “Multi” or “PAL” for the video standard of player output.

If “Multi” is selected, the output standard will be either NTSC or PAL depending on the DVD being played.

If “PAL” is selected, the video output will be converted to PAL standard irrespective of disc standard.

NOTE:

- When an NTSC disc is played, it is possible that some subtitles will be distorted. If this happens please change “Set TV Standard” to “Multi”.

Video Output:

Select “Video”, “Y/PB/PR Interlace”, “RGB” or “Y/PB/PR Progressive” for the video output of the player.

NOTE:

- When the TV set is connected through HDMI, the player will automatically establish the HDMI connection. (See page 10.)
- When the player is connected to multiple video output connectors, the picture performance may be affected by undesired video signals from the connectors that are not selected. For best picture performance, it is recommended that you select the appropriate item from “Video” setup menu and use only one video connection method.

Progressive Scan Output: (See page 11)

WARNING:

To be able to see the progressive video correctly, you should have a progressive scan TV and should make the video connections correctly.

1. Highlight “Y/PB/PR Progressive” in the Video output menu and press **SELECT.**
2. A confirmation dialogue screen will be displayed.
3. If you see the picture correctly, select “YES” and press **SELECT**.
4. If you cannot see the picture correctly, select “NO” and press **SELECT**.

NOTE:

- If your TV set does not have a progressive scan feature, nothing will be displayed on the screen, when “Y/PB/PR Progressive” is selected.
- If you do not see anything on the screen or if you do not select “YES” within 10 seconds, the video output setting returns to the previous setting automatically.
- You can also change the video output setting directly by pressing buttons on the remote control.

  This function is useful when you select the video output setting incorrectly and cannot see the picture correctly.

  Press the following buttons to change the video output.

  C-C-1 for “Video”

  C-C-8 for “Y/PB/PR Interlace”

  C-C-2 for “RGB”

  C-C-7 for “Y/PB/PR Progressive”

  The shortcuts can be used when there is no disc in the player.

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AUDIO SETUP

Digital Output:

You can select the type of digital output, which determines the audio format transferred via coaxial, optical and HDMI digital audio outputs.

LPCM:

When this mode is selected, audio tracks contained in the disc will be decoded by the player and passed on to your TV set or AV amplifier through the digital output in LPCM format.

Bitstream:

When this mode is selected, audio tracks contained in the disc will be passed on directly, without decoding, to the AV amplifier through the digital output. The AV amplifier must be capable of decoding the corresponding audio stream.

DRC (Dynamic Range Compression):

When “On” is selected, this function will be activated and will boost frequency response.

Down Sampling:

When output at 48 kHz, select “On”.

When the original sound is output, select “Off ”.

NOTE:

- It is not possible to connect speakers directly to the player; an AV amplifier must be used.

OTHERS SETUP

Password:

The Parental Rating adjustment function can be disabled or enabled by entering a 4-digit password.

“🔓” indicates: the password protection is deactivated and so Parental Rating can be changed. If you want to activate the password protection, enter a new password.

“🔒” indicates: the password protection is activated and so Parental Rating cannot be changed, and the correct password should be entered to unlock the protection.

NOTE:

- Factory preset of the password is: 0000. You have to enter a 4-digit password each time you want to change Parental Rating.
- You can use **C** to delete the incorrect entry.

Entering a password

Press ▲ or ▼ to select the “Password” field, and enter a password using **number buttons**. Each time you enter the password, the password protection will be activated or deactivated.

Changing the password

Unlock the password protection. Enter a new password using **number buttons**. The password protection is activated and the new password is registered.

NOTE:

- When the password protection is activated, you cannot select Parental Rating.
- If you forget the password, see page 39.

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Parental Rating:

Playing of DVDs can be restricted depending on the age of user. Parental control function allows the parent to set the playback restriction level.

Parental Rating can be adjusted to one of the eight ratings. This restricts viewing to only DVDs with the same or lower rating as that of the Parental Rating. “No Parental” allows viewing of all DVD titles regardless of the rating of the DVD.

Defaults:

If you select “Reset” and press **SELECT**, the factory presets will be loaded. Even after the factory reset, the password and Parental Rating will not be changed.

DivX(R) Registration:

There is a registration code in this page. This code is utilised to register the player with the DivX® Video On Demand service. This will allow you to rent and purchase video using the DivX® Video On Demand format.

DivX® DRM User Steps

1. The user will open “DivX(R) Registration” page by entering “Others” from the setup menu of the player.
2. You will get the DivX® VOD registration code from the player. The address for the DivX® VOD website is: www.divx.com/vod.
3. After entering the address above on the Internet, go to the section where registration is to be made for DivX® VOD membership.
4. Use the DivX® VOD registration (Activation) code you receive from the player to register and set a username and a password for yourself.
5. Once the registration process is over, you can download the DivX® VOD activation file from the Internet and write it onto a disc.
6. After inserting this disc into the player and playing the activation file, you will have a new player DivX® VOD Registration code activated for the player DivX® VOD.
7. When you want to download and watch movies, enter the address www.divx.com/vod and you will be able to download movies with your pre-designated username and password by paying a certain charge. Upon writing this film on the disc and inserting it into the player, you can watch these the number of times that you are entitled to watch.

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TROUBLESHOOTING

The picture quality is poor (DVD)

- Make sure the DVD surface is not damaged. (Scratches, fingerprints, etc.)
- Clean the DVD and try again.
- Make sure that the DVD is in the disc tray with the label facing up.
- A wet DVD or condensation may affect performance of the player. Allow the player one or two hours in Standby mode for it to dry.

Disc does not play

- No disc in the player.
  - Place a disc onto the tray.
- Disc incorrectly loaded.
  - Make sure that the DVD is in the disc tray with the label facing up.
- Wrong type of disc. The player cannot play CD-ROMs etc.
  - Use disc in supported formats described on page 5.
- The region code of the DVD must match that of the player.

Wrong OSD language

- Select the desired language in “Language” setup menu.

The language for the sound or subtitles on a DVD cannot be changed.

- Multilingual sound and/or subtitles not recorded on some DVDs.
- Try to change the sound or subtitles using the menu of the DVD. Some DVDs do not allow changes to these settings without using the menu of the DVD.

Some functions (Angle, Zoom, etc.) do not work

- These functions may not be available on some DVDs.
- Angle can only be changed when the angle symbol is displayed on VFD.

Abnormal or no picture

- Check that the player is connected to the TV properly and that all connections between the player and other attached equipment are secure.
- Have you pressed the correct buttons on the remote control? Try once more.
- Make sure the “TV Type” and “Video Output” are set correctly in “Video” setup menu.
- Using shortcuts with the remote control, try to change the “Video Output” setting, see page 32.
- If your TV set is connected through an HDMI cable, try to change the video resolution with **HDMI** on the remote control.

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No sound

- Check that the volume is set to an audible level.
- Make sure you have not switched the sound off accidently.
- Check the connections of the audio connectors, see pages 10 to 13.

Distorted sound

- Check that the appropriate listening mode setting is correct in audio system.

No response from remote control

- Check that the batteries are positioned correctly.
- Change the batteries.
- Operate the remote control within 30˚ angle on either side of the remote control sensor, up to a distance of approximately 6 meters.

If nothing works

If you have tried the above solutions and nothing seems to work, try switching the player off and on again. If you still encounter operational problems, unplug the AC power cord and wait for a few minutes to allow the player to reset itself completely. If none of these actions is successful, contact your supplier or DVD player repair technician. **Never attempt to repair a defective DVD player yourself.**

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SPECIFICATIONS

DVD/DVD-RW/DVD-R/DVD+RW/DVD+R/VCD/S-VCD/AUDIO CD/CD-RW/CD-R/MP3/JPEG/MPEG-4/DivX® player.

Power Requirements	220 - 240 V 50 Hz Auto Adjustable Power Consumption: 12 W (POWER ON) Approx. 5 W (Standby mode)
Types of Discs Supported	DVD: SS/SL 120 mm (DVD-5) SS/DL 120 mm (DVD-9) DS/SL 120 mm (DVD-10) DS/DL 120 mm (DVD-18) **DVD-RW (Video mode only)** **DVD-R (Video mode only)** **DVD+RW (Video mode only)** **DVD+R (Video mode only)** **VCD** **S-VCD** **AUDIO CD** **CD-RW** **CD-R** **MP3** **JPEG (Max resolution : 5M pixels)** **MPEG-4** **DivX®**
Video Type	MPEG-2 Video Standard Decoding (MPEG-1 supported) Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixel 50 and 60 Hz frame refresh rates (PAL & NTSC) Digital bit-stream processing rate up to 10.08 Mbits/sec Line resolution more than 500 lines
Video Output	HDMI : 480p (in NTSC), 576p (in PAL), 720p, 1080i resolution Analogue : CVBS : (With 4 x 10-bits / 54 MHz video DACs) PAL/NTSC (negative synchronised) 1 Vpp [75 Ω (loaded)] or RGB + CVBS : Through Full Euroscart Output (Pin-8 Control) Component : Y Output : 700 mVpp [75 Ω (loaded)], (PAL) P_B/C_B Output : 700 mVpp [75 Ω (loaded)], (PAL) P_R/C_R Output : 700 mVpp [75 Ω (loaded)], (PAL)
Audio Type	Dolby Digital Out and Downmix LPCM DTS Digital Out MPEG Multi channel
Audio Output	HDMI : IEC 61937 Digital : IEC 958 TOSLINK Analogue : 20 Bit/96, 48, 44.1 kHz down-sampling DAC 2 RCA jack outputs (Left/Right) Left/Right audio outputs of full Euroscart Output / Channel: 2 Vrms (0 dB fs, 1 kHz)
Dimensions	420 mm (W) x 49 mm (H) x 255 mm (D)
Weight	2.2 kg

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DEFINITION OF TERMS

Angle

Recorded onto some DVDs are scenes that have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, **ANGLE** can be used to view the scene from different angles.

Chapter Number

These numbers are recorded on DVDs. A title is subdivided into many sections, each of which is numbered, and specific parts of video presentations can be searched quickly using these numbers.

DivX®

DivX® is a digital video compression format developed by DivX, Inc.

Dolby Digital

Many movie theatres are equipped with 5.1 channel surround systems. This same type of technology is available to you in your home. To enjoy full 5.1 channel surround, the player must be connected to an external Dolby Digital decoder via the digital outputs (either coaxial or optical).

DTS

This is a digital sound system developed by Digital Theater Systems for use in cinemas. This system uses 6 audio channels and provides accurate sound field positioning and realistic acoustics. (By connecting a DTS Digital Surround decoder, you can also listen to DTS Digital Surround sound.)

DVD

This refers to a high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a video compression technology (MPEG II) and high-density recording technology, DVD enables aesthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).

DVD has a structure consisting of two 0.6 mm thin discs, which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD has a greater capacity than a single 1.2 mm thick disc.

HDMI

The High-Definition Multi-media Interface (HDMI) is an industry-supported, uncompressed, all-digital audio/video interface. The HDMI provides an interface between any compatible digital audio/video sources, such as a set-top box, a DVD player, and an AV receiver and a compatible digital audio and/or video monitor, such as a digital television (DTV).

LPCM

LPCM stands for Linear Pulse Code Modulation and is digital audio.

MPEG

Short for Moving Picture Experts Group. This is an international standard for compression of moving images. On some DVDs digital audio has been compressed and recorded in this format.

Playback Control (PBC)

This is recorded on a Video CD (Version 2.0). The scenes or information to be viewed (or listened to) can be selected interactively with the TV by looking at the menu shown on the TV.

Subtitles

These are printed lines appearing at the bottom of the screen, which translate or transcribe the dialogue. They are recorded on the DVDs.

Time Number

This indicates the playtime that has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (Not all discs permit the use of a time search feature. Availability is determined by the disc's manufacturer.)

Title Number

These numbers are recorded on DVDs. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track Number

These numbers are assigned to the tracks that are recorded on Audio CDs. They enable specific tracks to be located quickly.

Video CD

This contains recordings of pictures and sound whose quality is on a par with that of video tape. The player also supports Video CDs with playback control (Version 2.0).

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Cut this information box out and keep it in a safe place.

If you forget the password:

Press 1, 3, 6, 9.
Password will be cleared.

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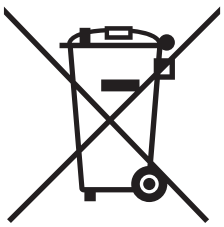
ENGLISH



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In Other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In Other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

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9JB50074836
06P03-TR-NV

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